

# Module 5 - Electrical Instruments

ME3023 - Measurements in Mechanical Systems

Mechanical Engineering

Tennessee Technological University

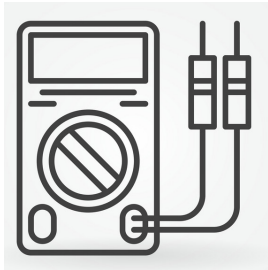
## Topic 1 - Performing Analog Measurements

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- Safety and Electricity
- Using a Digital Multimeter
- Measuring Voltage and Current
- Measuring Resistance and Continuity
- Using an Oscilloscope

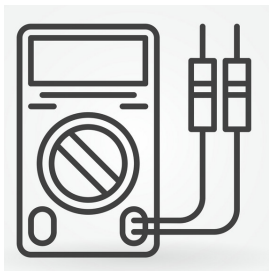
# Safety and Electricity

## Using a Digital Multimeter



# Measuring Voltage and Current

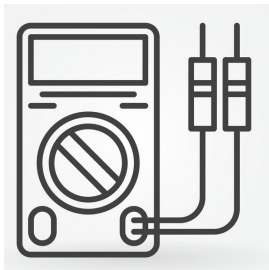
## Voltage



**Read about measuring DC voltage  
or AC voltage**

# Measuring Voltage and Current

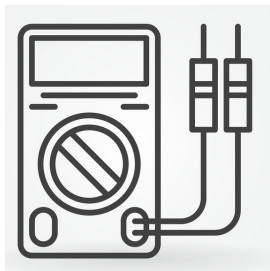
## Current



**Read about measuring current (with clamp)**

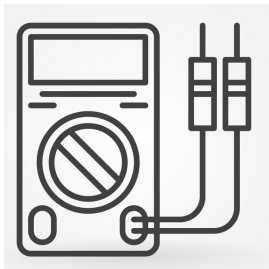
# Measuring Resistance and Continuity

## Resistance



**Read about measuring resistance.**

## Continuity



## Read about measuring continuity